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FEASIBILITY STUDY

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W. CHESTER BROWNE AND ASSOCIATES, INC.

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W. CHESTER BROWN AND ASSOCIATES, INC.,

ARCHITECTS AND PLANNERS

122-128 Arlington Street, Boston, Massachusetts

PRELIMINARY DRAFT

FEASIBILITY STUDY

FOR

PROTOTYPE PLANS

FOR A

MULTI-STORY LIGHT MANUFACTURING PLANT

IN THE

SOUTH END OF THE BOSTON CITY

IN THE STATE OF MASSACHUSETTS

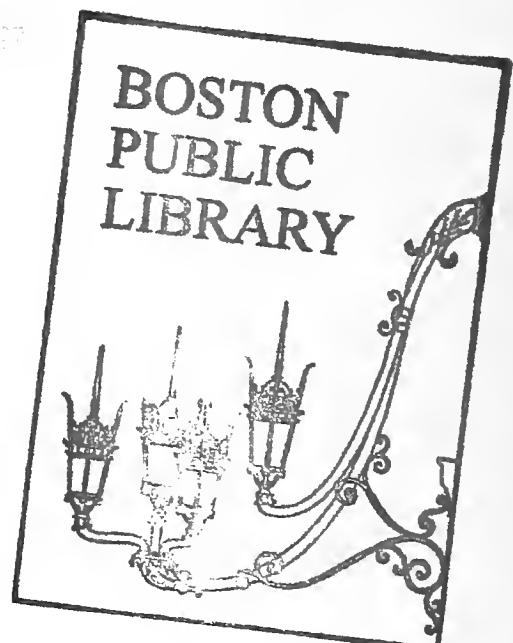
REPORT NO. 2

March 14, 1958

Prepared for

BOSTON REDEVELOPMENT AUTHORITY

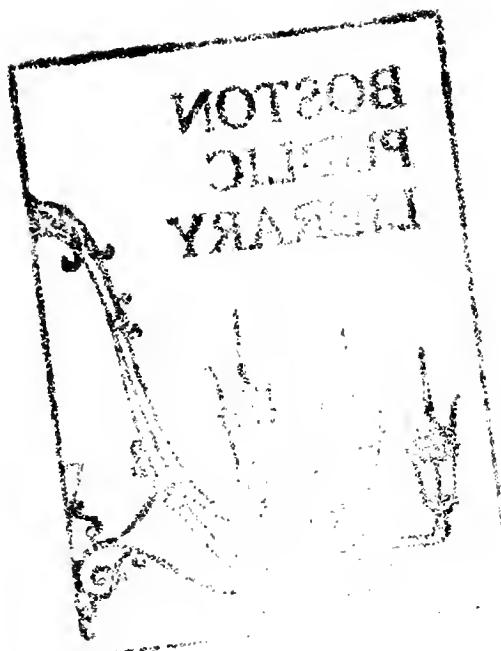
BOSTON, MASSACHUSETTS



Aug. 13, 1966

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INTRODUCTION

The purpose of this study is to develop a prototype multi-story building of low cost and maximum architectural quality for light industrial use, with drawings, specifications, analyses and cost data that will clearly demonstrate to the Boston Redevelopment Authority and substantial private developers, the feasibility of multi-story industrial buildings for lease at lowest possible rentals in the South End Urban Renewal Area.

Four basic functions comprise the fundamental spaces required for the operation of the majority of industrial enterprises. They are Administration, Manufacturing, Receiving and Shipping. Since industrial processes are many and varied, the design of a prototype industrial installation will be tailored to afford maximum flexibility and the greatest number of prospective tenants.

It will be designed with wall-to-wall spacing consistent with practical economical and heating practices and with columns as much as possible.

The usual standard facilities will be provided. The design will also be made to accommodate the installation of extra or additional utilities that may be required by certain tenants.

Vertical transportation will be provided by freight elevators, properly sized and spaced to adequately serve the tenant areas and passenger elevators designed to handle the building population.

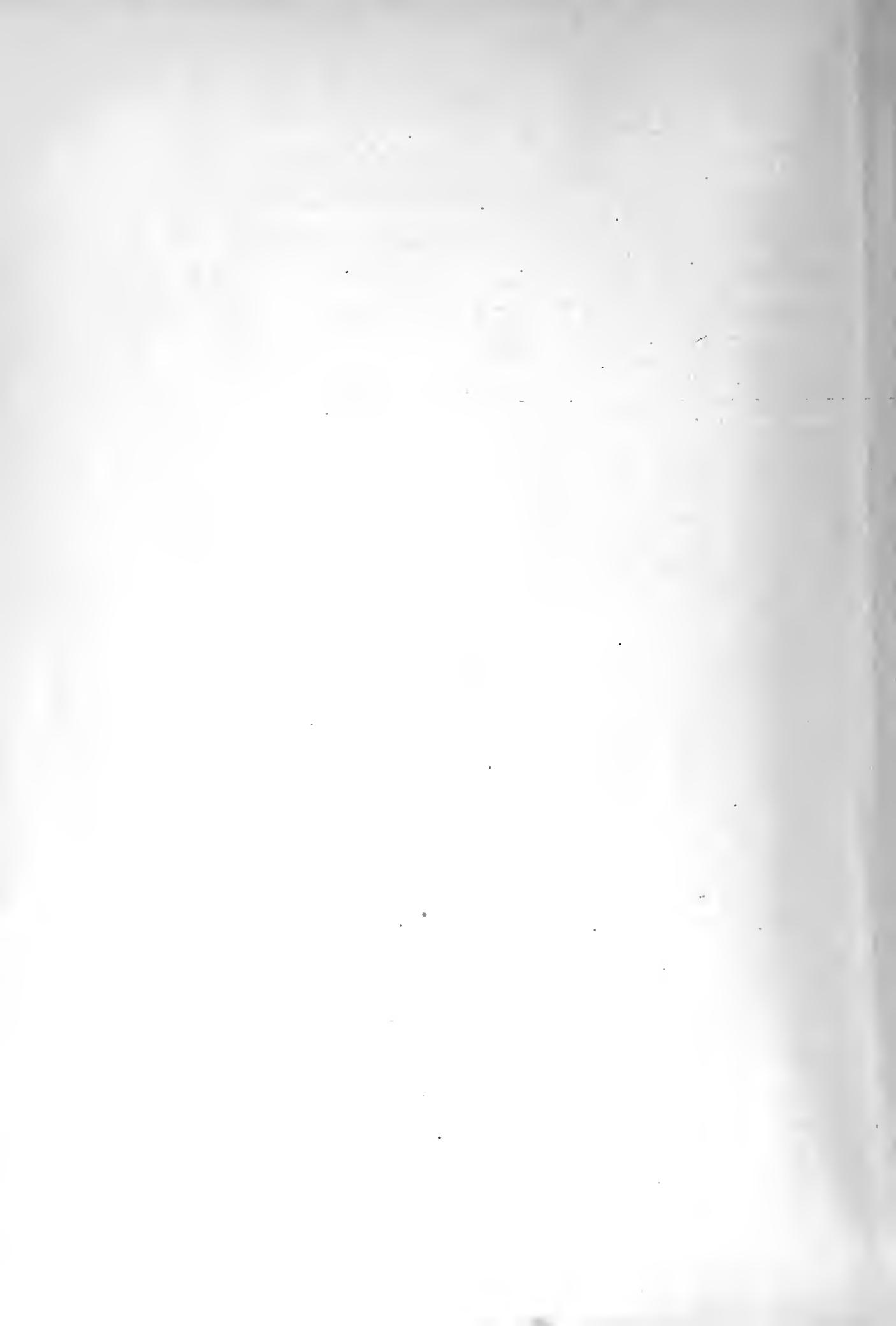
Availability of ample and ready access for receiving and shipping is vital to the efficient operation of each tenant. This includes sufficient off-street loading platform space



together with central office, high rise, a double decker bus and
walking tracks.

Common toilet facilities for a group of tenants is
not desirable. This is a matter of respect in dealing with
personnel. Each tenant area will be provided with its
own toilet facilities.

Sufficient off-street parking space for each unit
will be provided.



TRANSPORTATION FACILITIES AND EMPLOYEE PARKING

Excellent public transportation is provided for the South End area from any section of the City of Boston by the Metropolitan Transit Authority. The elevated rapid transit through Washington Street has stations in the South End at Northampton Street and Dover Street. The Huntington Avenue Subway Rapid Transit which traverses the South End on the west has subway stations adjacent to the South End at Massachusetts Avenue (Symphony Station) and near West Newton Street (Mechanics Station). Cross town bus service is provided which connect with these stations. There is additional bus service through Tremont Street which runs through the South End in a north-south direction.

The majority of the personnel who live in other sections of the city and are employed in these proposed industrial establishments, will use the M.T.A. system going to and from daily work.

The proximity of new housing units to be constructed under the current program of the Boston Redevelopment Authority together with their emphasis on restoration and repair of existing residential buildings in the South End will influence and encourage the developer of industrial installations in the area. Leases will be more easily secured because potential lessees will recognize that their prospective employees will have the opportunity to live near their work. Families living in the neighborhood will benefit from this opportunity through reduced transportation costs and increased time for other activities - time and money that would otherwise be spent travelling to and from work.

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Off-street parking spaces will be provided:

industrial sites for those who drive their automobiles to work and for visitors having business with the concern. Because of the public mass transportation system available, the ratio of required parking spaces to building population will be much less critical for the urban than for a suburban industrial concentration. The Urban Land Institute in Washington, D. C. published a Technical Bulletin in October 1952 which described ten planned industrial districts throughout the United States where sites are either leased or sold and the factory or warehouse building erected by either the site purchaser or the district developer. Most developers of these districts encourage construction of one story buildings and although there are generally no restrictions of height, the one story has proved most economical of operation. The usual requirement is that the purchaser acquire a minimum of 50% more land area than needed for the building itself. In an industrial district in Atlanta, Georgia, the ratio is 1 to 1. The trend is toward providing larger spaces for automobile parking spaces. These parking space requirements vary throughout the various districts, i.e., spaces equivalent to 30% of the number of employees on duty at one time; one space for each 5 employees; one space for each 1,000 square feet of gross floor area.

We will apply the above ratios to a hypothetical prototype four story building containing 25,000 square feet per floor (4 tenant spaces at 6,250 square feet each), a total building area of 100,000 square feet and 16 tenant spaces.

Subtracting areas required for freight elevators, passenger elevators, exit stairhalls, toilets, and corridor, we estimate that

each tenant area will have a net inside area of 12,000 square feet. The density of occupancy of tenant areas will vary, but if we allow an average of 100 square feet per person, we have a population of 45 persons per tenant area, a total building population of 720 persons.

Applying the Urban Land Institute parking ratios:-

1. Allowing one space for 30% of the population = 216 spaces required per building.

2. Allowing one space for each 5 persons = 144 spaces required per building.

3. Allowing one space for each 1,000 square feet gross building area = 108 spaces required per building.

The results indicate considerable spread in these planned suburban industrial districts.

We believe that available mass transportation facilities will reduce the required number of parking spaces for a South End industrial installation by at least 50%. If we allow one space for each 2,000 square feet of gross building area, each building will require 50 spaces. This is in the ratio of one space per 14 persons on the basis of a building population of 720 persons. If we allow one space for each 1,500 square feet of gross building area, each building will require 67 spaces. This is in the ratio of one space per 11 persons on the basis of a building population of 720 persons. We believe the latter is the preferable criteria.

IDENTIFICATION OF TYPICAL COMPANIES IN THE TRADE

INDUSTRIAL BUILDING AND THEIR REQUIREMENTS

A partial list of prospective sources for these installations is as follows:-

Needle Trade Manufacturers - Apparel - Leather.
Furniture Repair - Upholsterers.
Custom Footwear - Novelty Slippers.
Leather - Gloves - Billfolds - Novelties - Advertising - Findings.

Findings.

Office Machine Repair - Typewriters - Adding and Business Machines, etc. - Rental - Drafting Room Equipment.
Janitors' Supplies - Industrial Cleaning and Maintenance.
Labeling Equipment - Labels.
Linen Supply Service.
Printing Jobbers - Stationery Suppliers - Graphic Arts.
Mailing - Advertising Services.
Rubber Stamps - Marking Devices - Nameplates.
Reproduction Service - Blueprinting - Photostatic - Microfilm - Enlargement - Minigraphing.
Vacuum Cleaning Equipment - Supplies - Parts - Repair.

Distributors - Smallwares - Notions - Novelties.
Displays - Decorations - Novelties - Manikins - Advertising Exhibits.

Jewelry - Optical - Supplies - Repairs - Findings.
Musical Instrument Distributors - Repair - Service.
Picture Framing - Mirror Framing - Custom.

Electronics - Small Parts Manufacturing and Assembly.

Electric Appliance Distributors - Electrical Supplies.

Sound Equipment - Television - Communication Systems - Radio.

Appliance Dealers - Washing Machines - Water Coolers, etc.

Sales Distribution - Service - Repair.

Lighting Fixtures - Repair - Maintenance - Lamps - Shades.

Plastic Products.

Floor Covering Distributors - Floor Machine Repair - Repair - Service.

Hospital Equipment Supply - Distributors - Laboratory Equipment Suppliers.

Housewares - Distributors.

Aluminum - Storm Windows - Shutters - Screens - Venetian Blinds - Window Shades.

Pharmaceutical Supplies.

Instrument - Meter - Service - Repair - Distribution.

Coin Operated Machine Sales - Service.

The foregoing list of prospective occupants has been arranged in groups in an attempt to classify certain types of tenants that would have similar utility requirements.

It will be noted that many of the above are not necessarily manufacturers and that certain tenanted areas will be occupied as distribution centers, particularly by those tenants whose goods are, in the majority, distributed in the metropolitan area and therefore, would operate more economically from a location within easy distance of the downtown section.

It is believed that individual leases should be approximately 6,000 square feet with opportunity for the developer to lease double, triple or quadruple areas on the same floor. This will offer good flexibility for the developer in securing leases.

A building with 25,000 square feet floor area will provide 4 tenant spaces of 6,250 square feet each. On the floor of this area, a 28' x 28' bay spacing conforms.

Eight bays, per tenant space, each space, 8' deep and 12' 4" 4 bays deep, will provide 6,272 square feet (68' x 224') per tenant. Four tenant spaces per floor will result in a building 4 bays deep by 8 bays long (112' deep x 224' long) 25,016 square feet per floor. If the 224' length is exceeded, an expansion joint through the building would be required. The depth could be increased up to 8 bays, each bay added would increase each tenant space area 1,568 square feet.

A practical story height for the prototype will be based on sufficient height in the manufacturing area to allow for overhead distribution of utilities such as air handling duct systems, clearance for lighting fixtures, unit heaters, and drainage systems from the floor above. If we allow 1' 6" for mezzanine and 1' 0" for floor construction and 8' 0" clear height, we arrive at a 12' 0" story height. Ceilings are not normally required in the manufacturing, shipping and receiving areas.

The soffit of the slabs can be left exposed and painted. Overhead utilities, installed in an orderly fashion, are not objectionable in appearance and are readily accessible for maintenance or change.

Office areas will have ceiling heights of 8'0" high approximately 8'0" high, partitioned with steel and vinyl fabric partitions which will be used where ceiling heights permit. Closures are required. The employment of 7'0" high movable partitions will be encouraged for office subdivisions where possible. Prefabricated movable partitions have the following advantages. Manufactured in interchangeable units of modular dimensions, they can be quickly and easily erected or removed, and allow a simplification of floor covering and ceilings prior to erection. They can be obtained with factory applied finishes with lasting qualities and without field applied paint, thereby reducing maintenance costs. Changes in partition locations or heights can easily be made without disturbing maintenance personnel.

Breakfast and telephone facilities will be located in the main dining room provided in the lobby area. Modular movable walls will be employed for movable partitions, suspended from a modular suspension system and circuitous wall construction in the main partition. It is believed this modular dimension will provide an opportunity for sufficient flexibility of office partitioning to meet tenants' various requirements.

The main corridor through the building will contain the elevator shafts and pedlets will be enclosed with permanent partitions. The main corridor will have a suspended acoustical ceiling approximately 8'0" high. The space above the acoustical ceilings may be used for some utility distribution. The acoustical ceiling panels will be the removable type in 2'0" x 4'0" supported on an exposed tee suspension system. The main corridor ready access to the space above the ceiling for maintenance and existing or installation of additional utilities.

Subdivision requirements of the zoning regulations will vary for factory and office areas and will have to be determined when tenants are secured. Factory subdivisions such as shipping and receiving, stock room, tool cribs, etc., can be installed to meet the tenants' needs. The separating partitions can be standard, interchangeable, stock units made of wire mesh or metal or wood. Office subdivisions will also be installed to meet tenants' requirements.

FINANCIAL, STRUCTURAL AND LEGAL ASPECTS

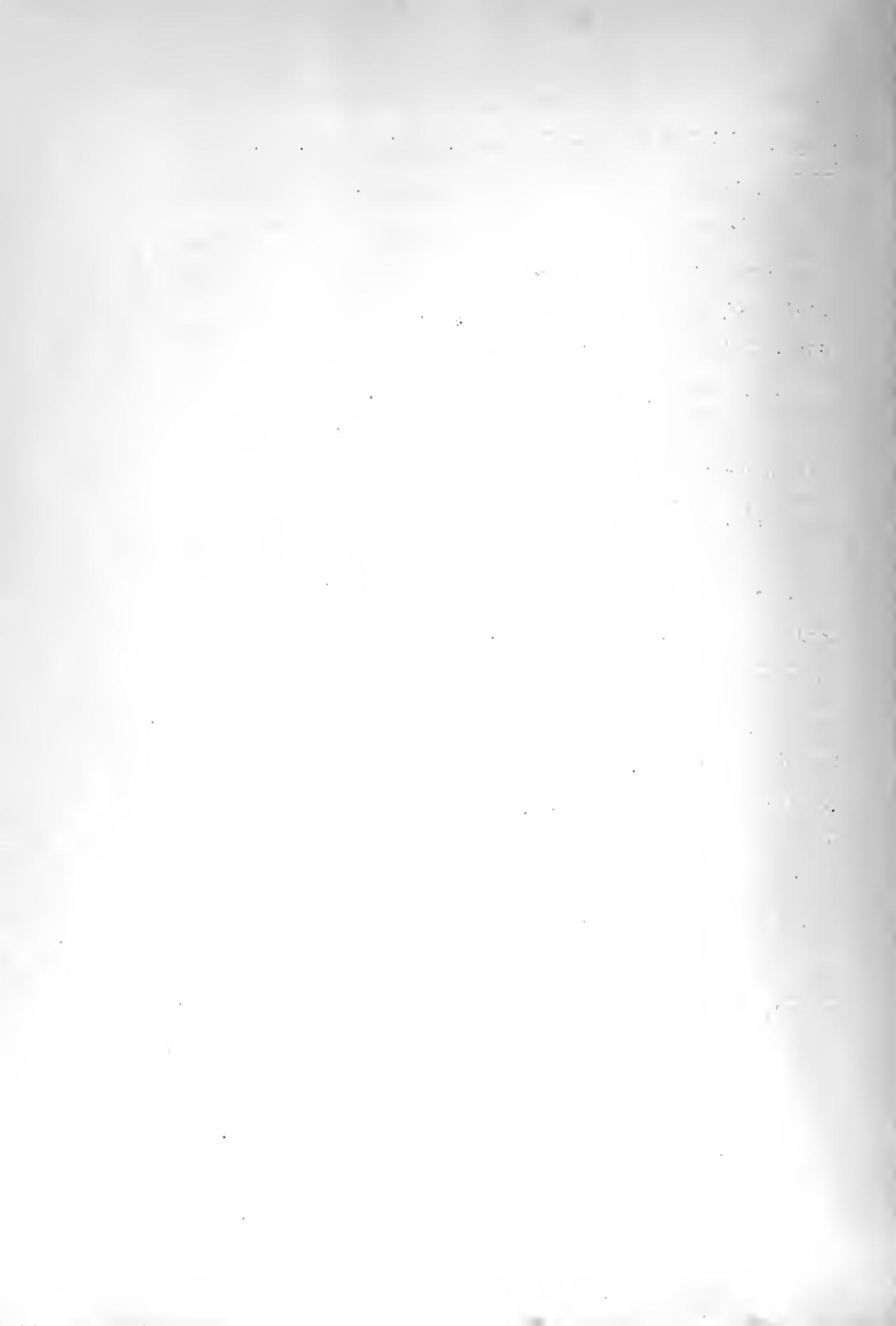
CONSIDERATION

Existing space is available in suburban one story buildings for \$1.00 per square foot per year net, the tenant also paying for maintenance and taxes, or space may be leased for \$1.10 per square foot including heat, power and lights. The prospective firm requires loading platform and automobile parking space.

Existing space is available in loft buildings in the in-town Boston area for \$1.00 to \$1.60 per square foot for first floor and \$.50 to \$2.00 per square foot for upper floors (includes heat and light). The majority of in-town properties have small bay spacing, inadequate shipping facilities (freight elevator, loading platform and freight dock and usually no automobile parking space).

The prototype must be produced at a cost which will permit rental which is competitive with the above and yet reflect minimum facilities that existing in-town properties have. The starting rental should be in the vicinity of \$2.15 per square foot.

Extent of freight and passenger facilities to be provided must be determined. The number of passenger elevators required is determined by a traffic study of the building population during the ground floor. On the basis of a 4 story building with 1,200 square feet per floor (4 tenant spaces & 1200 ft. per floor) and tenant space averaging 45 persons, 120 persons per floor, the building population above the ground floor is 400 or 2000 persons. The desirable passenger carrying capacity is 120 or 100 persons in 5 minutes or 70 persons. A bus will be required to transport 1000 and carry 10 persons per normal trip.



For 30' travel (3 floors at 10') and 100' fall per minute, the round trip time will be about 30 seconds. In five minutes, 2 cars will carry 70 persons and the walking interval will be 40 seconds. This is acceptable, therefore, 2 passenger elevators, car capacity 10 persons, speed 200 feet per minute will be required. Each elevator will cost approximately \$3,000.00 exclusive of the cost of the shaft.

If the number of stories were increased to 6, the car capacity would be increased to 11 and the speed decreased to 150 feet per minute. Cost of each elevator would be approximately \$36,000.00.

No well defined formula exists for the selection of freight elevators for office buildings. The use to which the building is subjected can vary over a wide range. For efficient service, each bank of tenant access in a building up to 7 stories high should be equipped with a freight elevator. This building should have 4 stories. Size and capacity of the freight elevator may be evaluated by evaluation of the freight traffic in terms of the following size and weight of the pieces to be carried. Consideration should be given to the use of power trucks carrying palletized material. These trucks weigh from 5,000 to 5,200 pounds. Pallets may be 48" from 40" to 55". For two pallets with loads the car width should be 10". Car size should be 10" x 10" with minimum capacity of 3,000 pounds and minimum speed of 75 feet per minute. It should be designed for Class 3 loading so a one piece load of full car capacity can be accommodated. Each freight elevator will cost approximately \$30,000.00 for a 4 story building, \$36,000.00 for a 6 story building.

exclusive of the cost of site, etc.

Freight and passenger elevator service for a 10-story building having a total floor area of 160,000 square feet (25,000 square feet and 4 tenant spaces per floor) will represent an initial cost of approximately \$120,000.00 = about \$7.50 per square foot for the building area and about \$1.00 per square foot of floor area.

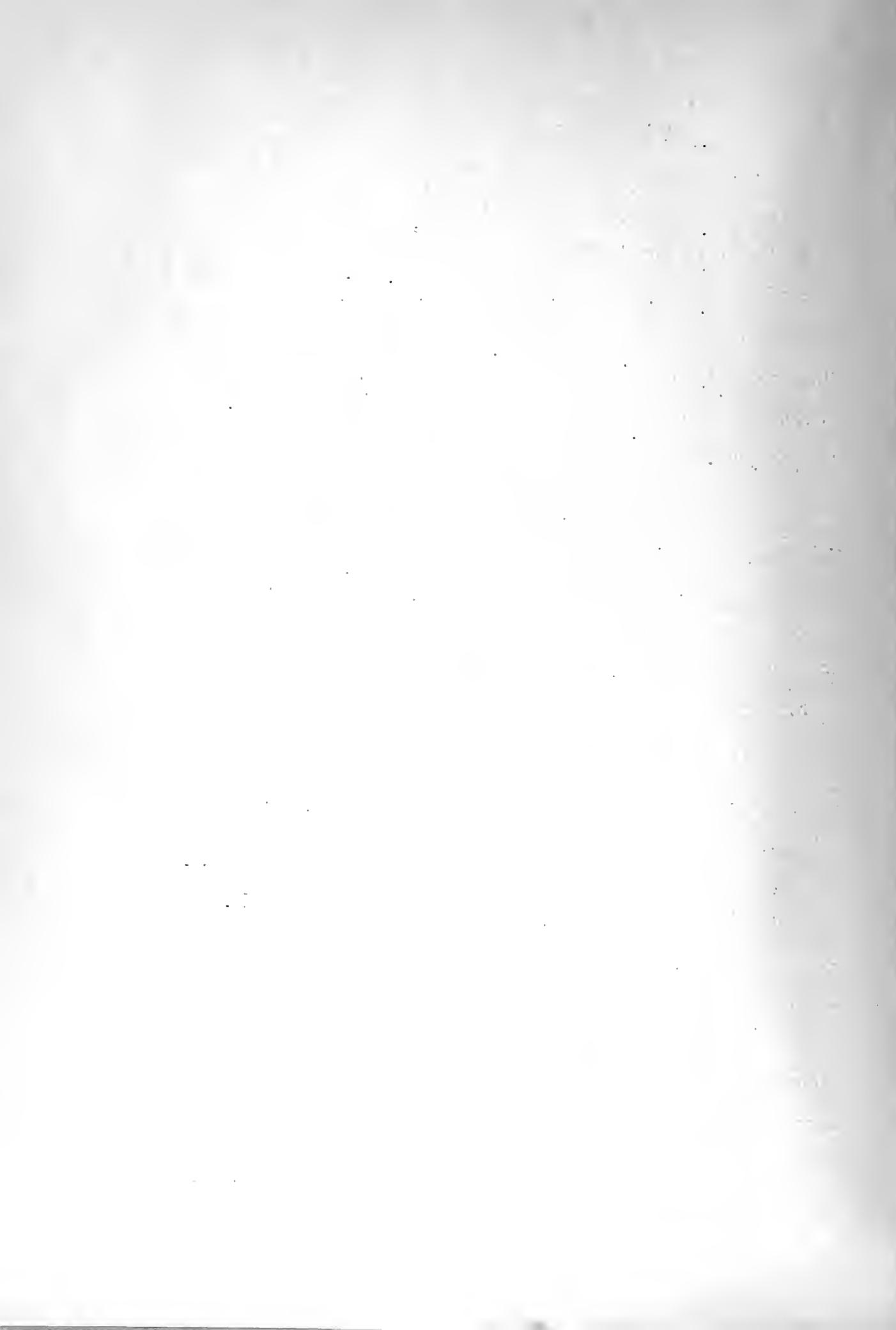
The same service for a 5-story building having a total floor area of 160,000 square feet (25,000 square feet and 4 tenant spaces per floor) will represent an initial cost of approximately \$214,000.00 = about \$8.00 per square foot for the building area and about \$1.00 per square foot of floor area. This indicates a saving of approximately \$1.00 per square foot for a 5-story building.

A building 8 stories high will require an additional passenger elevator and an increase in the freight elevator so the economy of adding stories is eliminated entirely after the 6 stories.

Foundation costs for any site in the City of Seattle is not on the original Washington State peninsula will add about \$1.00 per square foot of floor area to the cost of the building.

Consultation with responsible financial houses, realtors and potential developers indicate that these buildings will not be constructed on speculation. They are financed on the basis of secured tenant leases.

Analysis of various bay spacing for different additional floor systems in terms of weight and cost will be submitted in the next report.



Systems considered in investigation:

1. Concrete flat slab.
2. Concrete beams and slabs.
3. Concrete joists and beams.
4. Concrete grid systems.
5. Concrete slabs, reinforced steel joist.
6. Precast, prestrengthened floor systems.

Concrete flat slab buildings are ideally suited for industrial occupancy. Irregular overloadings are accommodated and absorbed in a structure of this nature.

The Boston Code specifies minimum slab thickness requirements for flat slab systems to be not less than 4" for a length of the panel or less than 1' and 20" clear height. If conforming to this criteria and demonstrating that a slab is properly designed to sustain a live load of 200 pounds per square foot it would cost very little more than that of a 75 pounds per square foot. Adding the additional steel to the required slab thickness will provide a structure that will accommodate the 150 pound floor loading. This would place the structure in the light industrial manufacturing category and therefore increase its adaptability for admission of a greater number of progressive tenants. Reinforcement requirements would be increased but to a minor degree. In the light of advantage gained for the additional cost.

Uniform bay spacing will allow employment of the most economical construction techniques and speed erection.

Repetitive use of forms and placement of reinforcement and steel will reduce material and labor costs in reinforced concrete floor construction.

Irregular shaped and cold regions will also have
construction costs.

The specific bay will dictate which construction system will be used.
Systems.

Analysis of various exterior bearing wall systems
also be contained in our next report.

Exterior bearing walls are not considered dominant in the
multi-story structures.

Exterior wall systems considered for credit buildings will be

1. Masonry units.

2. Precast concrete panels which can be varied to fit

the job or plant required if prices estimated. Panels can be
given a variety of face treat and finish characteristics if required.

3. Preformed steel structures which can be varied to fit

for office buildings.

Building requirements will be determined by the
structural designer. These requirements for a specific plant will
not be known until the lease is secured. Negotiations will
determine what can change on lease.

Modification of processes can change building requirements
in any event. Certain elements may require ventilation
and conditioning of human habitation for their protection and
adjacent tenants will have to use for them. Certain equipment
wants air conditioning in their offices, unless required, it is
possible requirements of conditioning fixtures will also vary. Such a condition
the property will be designed in a manner which provides

provides for these variables. The first consideration will be the location of
gas, hot and cold water, sewer, drainage and telephone lines in

in all tenant areas. Windows and doors will also be installed to address the problem of heat loss when required. A utility shaft through the building will be located in the manufacturing area and access gained to the shaft from each tenanted area. Special difficulties are anticipated in these shafts to meet special requirements of the proposed alteration to the building.

A similar but smaller shaft should be located in the office area to accommodate phones and heat and air conditioning.

A central power room should be provided in each building with electric closets in each floor providing a single connect switch and separate meter for each tenant. The developer should be encouraged to install a fire alarm system in each building which is designed to include a fire alarm system as special building codes are established. In addition to the sum developer, a single "all in one" property manager will serve his project.

If power costs are minimal at the site and the site proven economical, a central gas utility system should be provided.

Conduits for gas can be installed in each individual tenant line if it is located to before street connections.

In order to retain maximum ground floor space the developer should be encouraged to design a partial basement for each building and to consider a garage large enough to contain the boiler and mechanical service which includes water and electric service to the building, including water and sewage system and curb structures. The freight elevator should be limited down to this level.

100% REQUIREMENT FOR ALL NEW CONSTRUCTION

Some savings can be had by using 2000 ft. x 8 ft. x 8 ft.
in the higher priced 2x6 lumber for concrete walls.
Stronger steel permitted by the Residential Construction Code
and Mexican Institute of Steel 10 ft. instead of 12 ft. for
design instead of 2000 permitted by the Building Code of the
City of Boston.

If locations of sites finally selected for development
development site not in accordance with the Building Code
an appeal for variance must be filed with the Board of Appeals
by application for a building permit.

RECOMMENDATION OF THE BOSTON PORT AUTHORITY
TO THE BOSTON CITY COUNCIL
BE USED FOR PROTOTYPING APPROVAL OF PLANS

The Boston Redevelopment Authority has prepared
a copy of a map developed by the entitled "Scollay Square
Renewal Area." Certain sites in this project area are designated
as Industrial. One of these sites is located in the "T" block
area, another one is located adjacent to the Polymer Street & Haverhill
and smaller site is located adjacent to the "Polymer" Expressway
a few blocks south of Dover Street.

The Castle Square site is bounded by Dover Street,
Fremont Street, Herald Street and Washington Street. Sherman
Avenue dissects the site in a north-south direction, being 200
feet from Washington Street. Poly Center Court is located in
the latter block and is to remain as an office building
installation at the corner of Herald Street and Poly Center is
also to remain. The industrial installation site in block 11 of
this block, fronting on Washington Street for a distance of
approximately 700 feet from Herald Street and approximately 100
feet in depth. The remainder of this block is to be developed
and a shopping center.

The plan indicates that the block bounded by Dover
Street on the south, Fremont Street on the west, Herald Street
on the north and Sherman Avenue on the east be allocated to
housing and industry. The industrial installation is to occupy
a triangular portion of the block at the corner of Fremont Street
and Herald Street. The block is about 810 feet in the north-south
direction and 800 feet in the east-west direction.

Herald Street from the west end of the east side of the street is located to the intersection of Tremont Street, a distance of 550 feet from Tremont Street and the northward leg of Tremont Street for a distance of about 300 feet, a portion of the block at the corner of Herald Street and Tremont Street, approximately 200 feet by 100 feet is allocated to a public garage.

The industrial site adjacent to the roadway area is bounded on the west by Tremont Street, on the north by Herold Street, on the east by Westminster Street and on the south by Sterling Street. Another map entitled "Downtown Boston" prepared by the Transportation Division of the Boston Chamber of Commerce and dated February 27, 1937, illustrates the location of the inner belt which is an extension of the present city. The inner belt impresses toward the notably position of the city, extending along the south boundary of this industrial site, bounded on the south of Sterling Street.

The site including Herold Street is about 100 feet in the east-west direction and about 350 feet in the north-south direction. The opposite side of Herold Street in the north is designated as housing. The opposite side of Westminster Street on the east is designated as housing.

We have reviewed the location of the various commercial sites with responsible potential developers and firms and we have discussed with them the advantages and disadvantages of the locations, the shape of the sites, accessibility to the highway, opportunity for expansion and the effect on traffic and

Installations adjacent to housing areas.

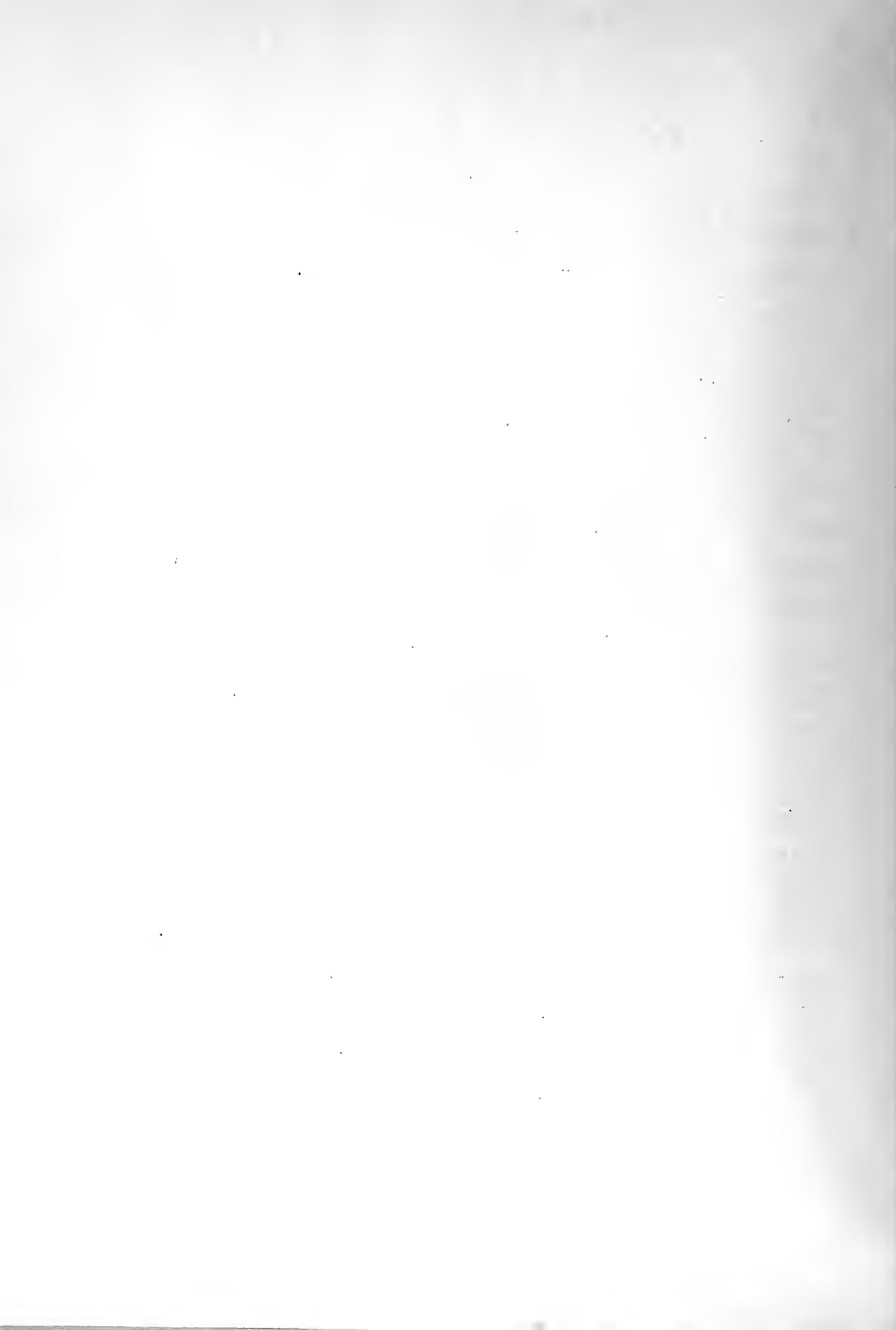
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The consensus of their opinion is that a concentration of installations adjacent to the Fitzgerald Expressway should be divorced from housing is a better approach to the problem. It is agreed that the best solution would be to concentrate the industry from Dover Street south as far as possible to Harrison Avenue and the Fitzgerald Expressway, off and along the streets such as Bristol, Mayes and Rondo. It is recommended to create an area of substantial size for development in such a zoning scenario.

Circulation through the area should be controlled by the installations, off-street parking and truck access areas.

The developer should be given strict guidelines as to the requirements of the tenant to transfer title for land and/or circumstances and other flexibility in financial arrangements. Buildings could be erected by either the developer or the purchaser and could be one story or multi-story.

The westerly side of Harrison Avenue would be allotted to commercial installations, including some recreational facilities such as a bowling establishment and possibly a hotel. This commercial installation would serve as a buffer between the industrial area and the housing area to the west. The industrial area has direct ingress and egress to the adjacent Fitzgerald Expressway which would expedite truck delivery and shipping and also minimize truck circulation throughout the housing area.



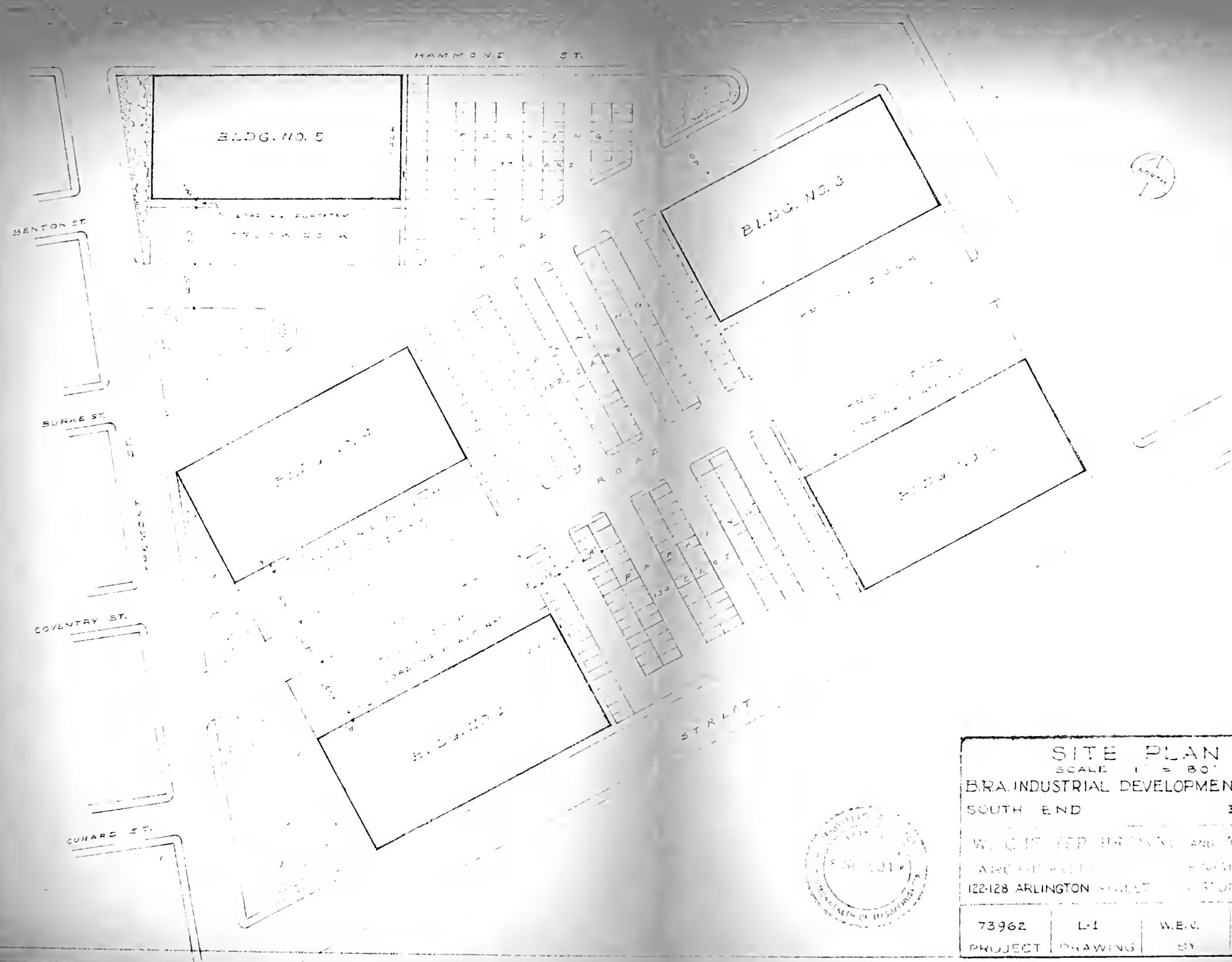
Separating the industrial area from the housing will reduce to a minimum the hazard to children living in the housing area. They also stated that interspersing of housing and industrial installations adversely affects depreciation of both.

* * * * *

The Boston Society of Civil Engineers published a book entitled "Boring Data From Greater Boston." A set of maps accompanies the book, showing locations of the borings. A good number of them are in the South End area and indicate that subsoil conditions should be thoroughly investigated at any specific site in the area prior to the design of foundations for any structure. Areas adjacent to the Washington Street strip and the Landor district would probably call for caissons. Other sites in the South End will most likely require piles.

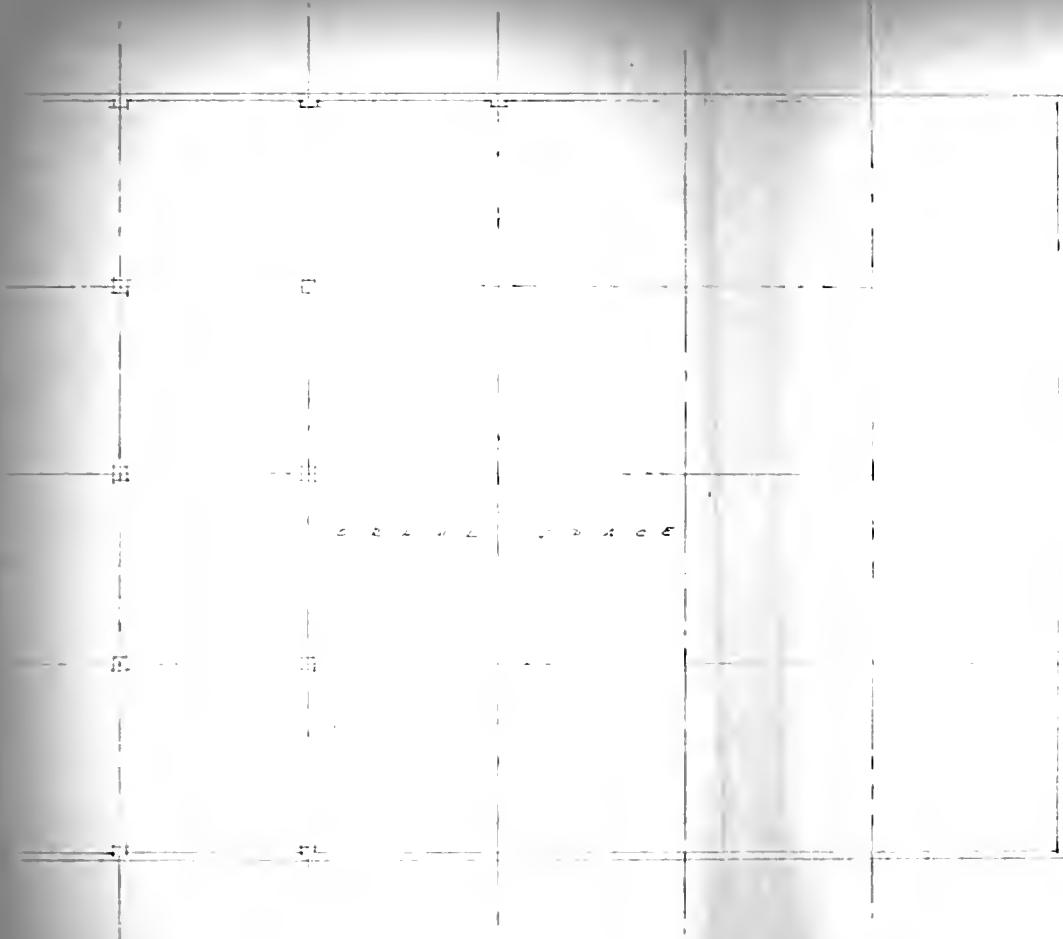
Borings to be taken for any proposed building will be located within the building area. Until the building area is more or less crystallized we do believe that additional boring should not be required.

A 4 story building having a bay spacing of 22' 0" x 22' 0" will develop a column foundation load in the vicinity of 400 tons. The boring reports will determine the most economical foundation system to be employed.



SITE PLAN			
SCALE 1" = 80'			
BRA. INDUSTRIAL DEVELOPMENT STUDY			
SOUTH END BOSTON			
W. C. GIFFORD PARK AND ASSOCIATES			
ARCHITECTS ENGINEERS			
122-128 ARLINGTON STREET BOSTON MASS.			
73962	L-1	W.E.C.	3/14/63
PROJECT	DRAWING	BY	DATE





BASEMENT PLAN
SCALE 1/16" = 1'-0"

SCHEME "A"

73962 K-1 1/2 13
PROJECT UHAWA 3



TYPICAL BUILDING
BRA INDUSTRIAL DEVELOPMENTS LTD
SOUTH END BOSTON 1

1/16" = 1'-0"

175



SYMMETRICAL ABSIT

LOADING PLATFORM (GROUND FL.)

RECEIVING & SHIPPING

وَالْمُؤْمِنُونَ إِذْ يَرَوْنَهُمْ يَقُولُونَ إِنَّمَا
يَرَوْنَنَا لِنَنْهَا عَنِ الْمُنْكَرِ وَمَا يَرَوْنَا

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TYPE-646 TENTH & LEE
22445 2 128° - 56°

TYPICAL FLOOR PLAN
SCALE 1/16" = 1'-0"

M E

COEUR D'ALENE

Y. S. Kwon et al.

- 6 -

TEMP. EXCL. BUILDING
EXAMINER & SELECTION AT STUDY
SOUTH END BOSTON

W. CHAS. C. BROWNE AND ASSOCIATES
ARCHITECTS - ENGINEERS
STEPHEN AUSTIN, MASS.

73-2-2	A-2	51	3/14/63
PROJECT	DRIVE	BY	DATE

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B Vol.1 Browne, Chester W. Assoc

Feasibility Study

Boston Redevelopment Authority.

DATE

ISSUED TO

11/10/67 CDA

